CIVIL AIM CONSULTANTS & ENGINEERS

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QC ABSTRACT

Nameof Work: - "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:3:6	86.63 Cum	1	1	Pass
2	M30	17.33 Cum	3	3	Pass
3	Cobble Stones-60mm	153.00 Sqm	1	1	Pass
4	Kerb Stones	945.00 Nos	1	1	Pass
5	Precast Slab-100mm	257.40 Sqm	1	1	Pass
6	Precast Slab-230mm	46.44Sqm	1	1	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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Authorised Signatory

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Job No: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 22.09.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore
AGENCY	:	**Sri Manoj Naik B M,** Contractor, Bangalore
NAME OF THE WORK	:	"Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		August - 2023
DATE OF TESTING		20.09.2023 to 22.09.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	342 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	3 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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Job No. : CACE/BBMP/MNBM/W.No.03/2023-24 Date :22.09.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,**
Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**
Name of Work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
Date of Testing :22.09.2023
Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	48	4.80	7.00	93.0	70-100
600 Micron	75	7.50	14.50	85.5	40-100
300 Micron	248	24.80	39.30	60.7	5-70
150 Micron	515	51.50	90.80	9.2	0-15

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Job No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date 22.09.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of Work "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

Date of Testing : 22.09.2023

IS Code : IS 383:2016
IS 2386 (Part 1) 1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	142	14.20	21.90	78.1	75-100
1.18	173	17.30	39.20	60.8	55-90
600 Micron	169	16.90	56.10	43.9	35-59
300 Micron	238	23.80	79.90	20.1	8-30
150 Micron	135	13.50	93.40	6.6	0-10

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜ.ಆ.ಪಂ, ಬೆಂಗಳೂರು-೧೦೬

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Job No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 22.09.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of Work "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore

Date of Testing : 22.09.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec Limits
40	0	0	0	100	100
20	170	3.4	3.4	96.6	95-100
10	2519	50.4	53.8	46.2	25-55
4.75	1958	39.2	92.9	7.1	0-10

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Job No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 22.09.2023

TEST REPORT ON COARSE AGGREGATES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri Manoj Naik B M ,Contractor, Bangalore.**
Name of Work	"Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
Date of Testing	: 22.09.2023
IS Code	: IS 383:2016 IS 2386 (Part 1)-1963(RA 2011)
Material	: 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	177	1.18	1.18	98.82	95-100
20	8242	54.95	56.13	43.87	30-70
10	3275	21.83	77.96	22.04	10-35
4.75	2941	19.61	97.57	2.43	0-5

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ಜಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Job No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 03.10.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client : **: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,**

Contractor : **: Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 03.10.2023

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1.	90.00	111.00	1.741	2465.48	1.23	0.917	133.20	20.94	22.61	20.74	25.93
2.	90.00	112.00	1.755	2463.11	1.24	0.918	133.80	21.03	22.71	20.86	26.08
3.	90.00	113.00	1.768	2459.40	1.26	0.920	134.50	21.14	22.83	21.00	26.25

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Job No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 06.10.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri Manoj Naik B M ,**Contractor, Bangalore.
Name of the work	:	"Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.15	60.16
2	02	60.17	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	695.6	24,200	28.74	287.4	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	698.9	24,200	28.88	288.8	

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ಬ ಮ ಪ ಕ, ಬೆಂಗಳೂರು-106.

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Job No. CACE/BBMP/MNBM/W.No 03/2023-24 Date: 27.10.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,**
Contractor	:	**: Sri Manoj Naik B M ,Contractor, Bangalore.**
Name of Work	:	: "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	27.10.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50.00	80.00	0.372	2368.23	1.60	0.957	40.10	20.42	22.06	21.10	26.38
2	50.00	81.00	0.381	2395.58	1.62	0.959	39.80	20.27	21.89	20.99	26.24
3	50.00	82.00	0.405	2515.42	1.64	0.961	40.50	20.63	22.28	21.41	26.76

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Job No : CACE/BBMP/MNBM/W.No.03/2023-24 Date: 27.10.2023

KERB STONE (CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,
Agency	:	Sri Manoj Naik B M ,Contractor, Bangalore.
Name of Work	:	"Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	27.10.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24-1983.
Grade of Concrete	:	M_{15}

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	70.00	0.339	2466.45	1.40	0.935	25.90	13.19	14.25	13.32	16.65
2	50.00	71.00	0.347	2489.09	1.42	0.937	26.20	13.34	14.41	13.51	16.89
3	50.00	72.00	0.355	2511.11	1.44	0.940	26.70	13.60	14.69	13.80	17.25

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Job No: CACE/BBMP/MNBM/W No.03/2023-24 Date: 10.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of the work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	10.10.2023	8.144	500.2	22.23
2	03.10.2023	10.10.2023	8.165	484.6	21.54
3	03.10.2023	10.10.2023	8.152	496.8	22.08

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Job No: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 31.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of the work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS- 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	31.10.2023	8.202	704.2	31.30
2	03.10.2023	31.10.2023	8.206	716.8	31.86
3	03.10.2023	31.10.2023	8.189	724.9	32.22

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Job No: CACE/BBMP/MNBM/W.No.03/2023-24

Date: 10.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of the work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on - 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	10.10.2023	8.177	515.2	22.90
2	03.10.2023	10.10.2023	8.189	521.8	23.19
3	03.10.2023	10.10.2023	8.168	508.9	22.62

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Lab No.: CACE/BBMP/MNBM/W.No.03/2023-24 Date: 31.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri Manoj Naik B M ,Contractor, Bangalore.**

Name of the work : "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	31.10.2023	8.184	726.3	32.28
2	03.10.2023	31.10.2023	8.169	708.2	31.48
3	03.10.2023	31.10.2023	8.154	714.6	31.76

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ಬ.ಜ.ಪ.ಕ. ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.. CACE/BBMP/MNBM/W.No.03/2023-24 Date: 10.10.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Agency	**: Sri Manoj Naik B M ,Contractor, Bangalore.**
Name of the work	: "Repairs and maintenance of Footpaths in Someshwara ward no-03 of Yelahanka Satellite town Sub division", BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	10.10.2023	8.112	515.3	22.90
2	03.10.2023	10.10.2023	8.119	505.2	22.45
3	03.10.2023	10.10.2023	8.135	496.5	22.07

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.10.2023	31.10.2023	8.198	708.2	31.48
2	03.10.2023	31.10.2023	8.166	716.3	31.84
3	03.10.2023	31.10.2023	9.148	721.4	32.06

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